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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/722,740	11/26/2003	Peter Peumans	082007-0087 7285	
	7590 05/08/200 WILL & EMERY LL	EXAMINER		
	Y PARK EAST	MAYEKAR, KISHOR		
	S, CA 90067-3208	ART UNIT	PAPER NUMBER	
			1795	
			MAIL DATE	DELIVERY MODE
			05/08/2009	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary		Application	on No.	Applicant(s)				
		10/722,74	40	PEUMANS ET AL.				
		Examiner	•	Art Unit				
		Kishor Ma	yekar	1795				
Period fo	The MAILING DATE of this communication or Reply	appears on the	e cover sheet with the c	orrespondence ac	ldress			
WHIC - Exter after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR RECHEVER IS LONGER, FROM THE MAILING asions of time may be available under the provisions of 37 CFF SIX (6) MONTHS from the mailing date of this communication. Poperiod for reply is specified above, the maximum statutory per to reply within the set or extended period for reply will, by state the process of the property of the organization of the property of the organization of the property of the property of the organization. See 37 CFR 1.704(b).	DATE OF THE ALL STATES AND ALL STATE	HIS COMMUNICATION ent, however, may a reply be tin ill expire SIX (6) MONTHS from lication to become ABANDONE	N. nely filed the mailing date of this of D (35 U.S.C. § 133).				
Status								
1) 又	Responsive to communication(s) filed on 28	8 January 200	q					
•	· · · · · · · · · · · · · · · · · · ·	-						
3)	· · · · · · · · · · · · · · · · · · ·							
٥/ا	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Dispositi	on of Claims							
4)⊠	I)⊠ Claim(s) <u>1-24</u> is/are pending in the application.							
•	4a) Of the above claim(s) <u>8, 9 and 11-24</u> is/are withdrawn from consideration.							
	□ Claim(s) is/are allowed.							
· —	s)⊠ Claim(s)is/are allowed. S)⊠ Claim(s) <u>1-7 and 10</u> is/are rejected.							
· ·	Claim(s) is/are objected to.							
-	Claim(s) are subject to restriction an	d/or election r	equirement.					
	on Papers							
	The specification is objected to by the Exam	vinor						
•	-		O objected to by the I	Evaminar				
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.  Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).								
			-		ED 4 404/4)			
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).								
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.								
Priority ι	ınder 35 U.S.C. § 119							
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some coll None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No.</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>								
2) Notice 3) Inform	t(s) e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO/SB/08) r No(s)/Mail Date		4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	ate				

## Response to Amendment

1. Claims 1-24 are pending in the application. Claims 8, 9 and 11-24 are withdrawn from consideration.

## Claim Rejections - 35 USC § 103

- 2. Claims 1-7 and 10 stand rejected under 35 U.S.C. 103(a) as being unpatentable over Vachon et al. (US 6,340,421 B1), for reasons as of record.
- 3. Claims 1-7 and 10 stand rejected under 35 U.S.C. 103(a) as being unpatentable over Trau et al. (US 5,855,753), for reasons as of record.

## Response to Arguments

4. Applicant's arguments filed 28 January 2009 have been fully considered but they are not persuasive.

Applicant argues that "the claimed invention differs from Vachon in at least two ways. First, ... Vachon does not teach or suggest a solution or suspension .. of about 10  $\mu$ g/ml to about 1 mg/ml ... Vachon does not teach that the solution is located in a vicinity between a pair of electrodes". The examiner finds this is unpersuasive. First, a copy of

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MPEP 2144.05.II.A is provided here "Generally, differences in concentration or temperature will not support the patentability of subject matter encompassed by the prior art unless there evidence indicating such concentration or temperature is critical. "[W]here the general conditions of a claim are disclosed in the prior art, it is not inventive to discover the optimum or workable ranges by routine experimentation." In re Aller, 220 F.2d 454, 456, 105 USPQ 233, 235 (CCPA 1955) (Claimed process which was performed at a temperature between 40° and 80°C and an acid concentration between 25% and 70% was held to be prima facie obvious over a reference process which differed from the claims only in that the reference process was performed at a temperature of 100°C and an acid concentration of 10%.)". Since Vachon discloses in Example 1 the use of a small amount of an enzyme plating solution containing about 6.25 wt% enzyme, the selection of the concentration through optimization stands. Second, since the recitation "a vicinity" means near and does not preclude "in contact", it's the examiner's position to maintain the rejection.

To the argument that "[n]othing in Trau describes the claimed invention, and certainly not to the extend that it would have made the claimed invention obvious "through routine experimentation"", first since Trau discloses all the steps as claimed except for the recited concentration and second since Trau discloses in c. 8, l. 40-56 that "the exact number of particles 82 required for a full dense monolayer are introduced in solution ...",

the concentration of particles needed for the deposition of full dense monolayer is based upon the size of the anode, hence the concentration is a result-effective variable.

## Conclusion

5. THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kishor Mayekar whose telephone number is (571) 272-1339. The examiner can normally be reached on Monday-Thursday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nam Nguyen can be reached on (571) 272-1342. The fax phone number for the

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USA OR CANADA) or 571-272-1000.

organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN

/Kishor Mayekar/ Primary Examiner, Art Unit 1795